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PROVISIONAL SPECIFICATION.

Improvements in or relating to Sheet Metal Canisters, and the like Receptacles, and their Lids or Covers.

I, FRANCIS WALTER SMITH, of 5, Thornbury Avenue, Southampton, in the County of Hants, Mariner, do hereby declare the nature of this invention to be as follows:—

This invention relates to sheet metal canisters, and the like receptacles, made of relatively thin sheet metal, and the lids or covers for same.

The object of my said invention is to provide simple means for increasing the security of the lid in the receptacle in the closed position.

According to my invention for receptacles with an open top of the size of the top of the receptacle the lid, which fits in the opening in the top of the receptacle, will preferably be dished and somewhat coned with a top rim projecting outside of the receptacle, when the lid is in place, for convenience in removing the lid, in this case I provide a projecting continuous ridge, or a number of projections in line, on the outside of the sunk or dished part of the rim of the lid, and in the inside of the top part of the receptacle an annular recess adapted to take the ridge or projections on the lid when the latter is pressed down into the receptacle, the said connection serving to lock the lid in the receptacle.

Or, if preferred, I may, according to another form or modification of my invention, arrange for the continuous ridge, or series of projections, to be provided on the inside of the receptacle at a convenient distance down from the top, and a continuous annular recess in the sunk or dished sides of the lid, adapted to take the continuous ridge or series of projections, provided on the inside of the receptacle top, when the lid is pressed down into the receptacle, thereby serving to lock the lid in the latter.

In the case of lids fitting over the top of the receptacle the continuous recess may be provided in the side of the receptacle at a convenient distance down from the top, projecting inwards, and a corresponding continuous ridge, or a series of projections, on the inside of the overlapping rim of the lid adapted to fit in the recess, provided in the receptacle, when the lid is pressed down on to same; or, if preferred, the continuous recess may be provided in the overlapping rim of the lid, adapted to take a continuous ridge, or a series of projections, provided on the outside of the receptacle, at a convenient distance down from the top of same.

For convenience in removing such lids the top rim of same may be arranged to project somewhat outside of the top of the receptacle.

The said projections and recesses may be conveniently formed in the lid and receptacle, respectively, by punching or pressing the metal into the desired form.

The projections will require to project, relatively to the size of the receptacle, to only a slight extent to secure the object in view, and the thinness of the metal—and consequent flexibility—ordinarily used in the manufacture of these

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receptacles and lids, will allow of the projections to pass more or less readily into, and out of the recesses, when closing or opening the receptacle.

The said receptacles may be made of any convenient desired sectional shape, including circular, rectangular, or oval.

Dated the 3rd day of January, 1914.

FRANCIS WALTER SMITH.

Herbert P. Blake,
Chartered Patent Agent,
70, High Street, Southampton,
Agent for the Applicant.

COMPLETE SPECIFICATION.

Improvements in or relating to Sheet Metal Canisters, and the like Receptacles, and their Lids or Covers.

I, FRANCIS WALTER SMITH, of 5, Thornbury Avenue, Southampton, in the County of Hants, Mariner, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to sheet metal canisters and the like receptacles, and the lids or covers for same, made of relatively thin sheet metal.

The object of my said invention is to provide simple means for increasing the security of the lid in the receptacle in the closed position.

In the accompanying drawing I have shown what I consider to be the best means of carrying out my said invention in which:—

Fig. 1 shows a sectional elevation of a receptacle with the lid fitting in same, according to one form or modification of my invention.

Figs. 2 and 3 outside elevations of two differently arranged lids adapted to fit in the receptacle shown by Fig. 1.

Fig. 4 a sectional elevation of a receptacle showing another form or modification in the fitting of the lid in same.

Fig. 5 an outside elevation of the lid adapted to fit in the receptacle shown by Fig. 4.

Figs. 6 and 7 are sectional elevations of receptacles in which the lids fit over the top of same.

Figs. 8 and 9 outside elevations of two differently arranged lids adapted to fit on the receptacle as shown by Fig. 6.

Fig. 10 an outside elevation of the lid for the receptacle shown by Fig. 7.

A, B, C, D, are the receptacles.

E, F, G, H, I, J, the lids.

According to my invention, for the receptacle (Fig. 1) I provide in the inside of the top part of the receptacle at a convenient distance down from the top, an annular continuous recess K, and on the outside of a lid E (Fig. 2) of the receptacle a continuous ridge L, or a series of projections M, as shown on the lid F, (Fig. 3) adapted to engage with the recess K, when the lid is pressed down into the receptacle, and thus lock the lid in same.

According to another form or modification of my invention, for receptacles B (Fig. 4) I may arrange for a continuous ridge L, or a series of projections M, (see Fig. 3) on the inside of same, and a continuous annular recess K, on the dish rim of the lid G, adapted to engage with the ridge L, or projections M. (see Fig. 3)—as the case may be—, on the inside of the receptacle when the lid is pressed down into same, thereby locking the lid in the receptacle.

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In the case of the lid fitting over the top of the receptacle C with overlapping rim O, (see Fig. 6) a continuous recess K may be provided in the inside of the receptacle, projecting inwards, and a corresponding continuous ridge L, or a series of projections M (see Fig. 3) on the inside of the overlapping rim O of the lid, adapted to fit in the recess K provided in the receptacle when the lid is pressed down on to same, and thereby lock the lid in the receptacle.

Or, if preferred, referring to the receptacle D, (Fig. 7) a continuous recess K may be provided in the overlapping rim O of the lid, adapted to take a continuous ridge L or a series of projections M (see Fig. 3) on the outside of the receptacle, as and for the purpose above specified.

All the lids will have a rim N, for convenience in removing them from the receptacles.

The said projections and recesses may be conveniently formed in the lids and receptacles, respectively, by punching or pressing the metal into the desired form.

The projections will require to project, relatively, to the size of the receptacle, to only a slight extent to secure the object specified, and the thinness of the metal, ordinarily used in the manufacture of such like receptacles, and lids, and consequent flexibility of same, will allow of the projections to pass more or less readily into, and out of the recess when inserting or removing the lids.

The said receptacles may be made of any convenient desired sectional shape, including circular, rectangular or oval.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I am aware that it has been proposed to provide sheet metal receptacles with annular recesses pressed into the metal at the mouth thereof, and to provide lids thereto with beaded edges to engage such recesses. I am also aware that receptacles of paper and like material have been formed with recesses and ribs pressed in the receptacle and paper lid for inter-engagement, but such receptacles are a distinct class of goods and the lids when removed are not as a rule intended to be replaced except temporarily. Furthermore the lids of such receptacles are not provided with any ridge to facilitate removal, such being unnecessary as the lids are generally destroyed directly the receptacle is opened, but I declare that what I claim is:—

1st. In a sheet metal canister comprising a receptacle and a lid with a vertical flange adapted to fit within the top edge of the receptacle or over such edge, the provision of a groove or depressions pressed in the one part, and adapted to engage with a rib or projections pressed in the other part, and of a laterally projecting portion of the lid by which it may be gripped or with which an instrument may be engaged to remove the lid from the receptacle.

2nd. A sheet metal canister constructed substantially as described with reference to the several modifications shewn in the drawings herewith.

Dated the 22nd day of January, 1914.

HERBERT P. BLAKE,
Chartered Patent Agent,
70, High Street, Southampton,
Agent for the Applicant.

[This Drawing is a reproduction of the Original on a reduced scale]

